

Arizona Electric EDI Standards

UDC Bill Data For ESP Consolidated Billing

**VERSION: ANSI X12 810 Draft Standard Ver/Rel 4010
DRAFT**

Author:
Modified:

Arizona Process Standards Work Group
September 20, 2000 1:20PM

810

Invoice

Functional Group=IN

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

Notes:

3/070 Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.

General: Mandatory usage items inside detail and summary loops below imply that they are mandatory if the loop is present.

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Mandatory
020	BIG	Beginning Segment for Invoice	M	1			Mandatory
030	NTE	Note/Special Instruction (customer or rate level messages)	O	100			Conditional
050	REF	Reference Identification (ESP assigned acct #)	O	12			Mandatory
050	REF	Reference Identification (UDC assigned acct #)	O	12			Mandatory

LOOP ID - N1			200				
070	N1	Name (UDC)	O	1			Mandatory
070	N1	Name (ESP)	O	1			Mandatory
130	ITD	Terms of Sale/Deferred Terms of Sale	O	>1			Mandatory
140	DTM	Date/Time Reference (Invoice period)	O	10			Mandatory

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - IT1 (METERED)			200000				
010	IT1	Baseline Item Data (Metered)	O	1			Mandatory
040	TXI	Tax Information (Meter level taxes)	O	10			Conditional
059	MEA	Measurements (Multiplier)	O	40			Mandatory
059	MEA	Measurements (Kilowatt hours)	O	40			Mandatory
059	MEA	Measurements (Demand KW)	O	40			Conditional
060	PID	Product/Item Description	O	1			Conditional
120	REF	Reference Identification (UNI/SDP)	O	>1			Mandatory
120	REF	Reference Identification (Meter number)	O	>1			Mandatory
120	REF	Reference Identification (Utility rate)	O	>1			Mandatory
120	REF	Reference Identification (Cycle Number))	O	>1			Optional
150	DTM	Date/Time Reference	O	10			Conditional

LOOP ID - SLN			1000				
200	SLN	Subline Item Detail	O	1			Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25			Mandatory

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LOOP ID - N1						200
240	N1	Name (Customer)	O	1		Mandatory
260	N3	Address Information (Service address)	O	2		Mandatory
270	N4	Geographic Location	O	1		Optional
LOOP ID - IT1 (UNMET)						200000
010	IT1	Baseline Item Data (Invoice)	O	1		Mandatory
040	TXI	Tax Information (Unmetered level taxes)	O	10		Conditional
059	MEA	Measurements (Count of unmetered devices)	O	40		Mandatory
060	PID	Product/Item Description	O	1		Conditional
120	REF	Reference Identification (Utility rate)	O	>1		Mandatory
120	REF	Reference Identification (Cycle Number))	O	>1		Optional
150	DTM	Date/Time Reference (Service period)	O	10		Conditional
LOOP ID - SLN						1000
200	SLN	Subline Item Detail	O	1		Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information	O	25		Mandatory
LOOP ID - N1						200
240	N1	Name (Customer)	O	1		Mandatory
260	N3	Address Information (Service address)	O	2		Mandatory
270	N4	Geographic Location	O	1		Optional
LOOP ID - IT1 (ACCOUNT)						200000
010	IT1	Baseline Item Data (Account)	O	1		Mandatory
040	TXI	Tax Information (Account level taxes)	O	10		Conditional
060	PID	Product/Item Description	O	1		Conditional
120	REF	Reference Identification (Days in period)	O	>1		Mandatory
120	REF	Reference Identification (Cycle Number))	O	>1		Optional
150	DTM	Date/Time Reference (Service period)	O	10		Conditional
LOOP ID - SLN						1000
200	SLN	Subline Item Detail	O	1		Mandatory
230	SAC	Service, Promotion, Allowance, or Charge Information (Meter level charges)	O	25		Mandatory

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	TDS	Total Monetary Value Summary	M	1			Mandatory
070	CTT	Transaction Totals	O	1		N3/070	Recommended
080	SE	Transaction Set Trailer	M	1			Mandatory

ST	Transaction Set Header	Pos: 010	Max: 1
		Heading - Mandatory	
		Loop: N/A	Elements: 2

To indicate the start of a transaction set and to assign a control number

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Notes:

Required

ST~810~0001

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Mandatory
Description: Code uniquely identifying a Transaction Set						
		<div>Code810</div> <div>NameInvoice</div>				
ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

BIG

Beginning Segment for Invoice

Pos: 020

Max: 1

Heading - Mandatory

Loop: N/A

Elements: 4

To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

Semantics:

- 1. BIG01 is the invoice issue date.
- 2. BIG03 is the date assigned by the purchaser to purchase order.
- 3. BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.

Comments:

- 1. BIG07 is used only to further define the type of invoice when needed.

Notes:

Required

BIG~19990201~19990201123500001~~~~~PR~00

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BIG01	373	Date	M	DT	8/8	Mandatory
		Description: Date expressed as CCYYMMDD				
		Notes: Document creation date				
BIG02	76	Invoice Number	M	AN	1/22	Mandatory
		Description: Identifying number assigned by issuer				
		Notes: Unique document identifier by sender, such as invoice number.				
BIG07	640	Transaction Type Code	O	ID	2/2	Mandatory
		Description: Code specifying the type of transaction				
		CodeName				
		FBFinal Bill				
		Notes: Final bill ready items from the non-billing party.				
		PRProduct (or Service)				
		Notes: Regular service period bill items from the non-billing party.				
BIG08	353	Transaction Set Purpose Code	O	ID	2/2	Mandatory
		Description: Code identifying purpose of transaction set				
		CodeName				
		00Original				
		COCorrected				
		Notes: Used to send rebill items from non-billing party.				

NTE	Note/Special Instruction (Customer or rate level messages)	Pos: 030	Max: 100
		Heading - Optional	
		Loop: N/A	Elements: 2

To transmit information in a free-form format, if necessary, for comment or special instruction

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes:
Conditional.
Used to explain or clarify billing charges from non-billing party. Recommend using non EDI method to deliver repetitive messages.
NTE~ADD~ADJUSTMENTS DUE TO POWER FACTOR CHANGE

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
NTE01	363	Note Reference Code Description: Code identifying the functional area or purpose for which the note applies	O	ID	3/3	Mandatory				
<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>ADD</td><td>Additional Information</td></tr></table> <div>Notes: <i>Non-billing party messages. These are for special bill messages, and exclude repetitive and/or regulatory messages.</i></div>							<u>Code</u>	<u>Name</u>	ADD	Additional Information
<u>Code</u>	<u>Name</u>									
ADD	Additional Information									
NTE02	352	Description Description: A free-form description to clarify the related data elements and their content <div>Notes: <i>Message text</i></div>	M	AN	1/80	Mandatory				

REF	Reference Identification (ESP assigned customer account number)	Pos: 050	Max: 12
		Heading - Optional	
		Loop: N/A	Elements: 2

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~11~935668322

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Notes: <i>Energy Service Provider assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>11</td><td>Account Number</td></tr></table>	<u>Code</u>	<u>Name</u>	11	Account Number				
<u>Code</u>	<u>Name</u>									
11	Account Number									
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>Account number</i>	C	AN	1/30	Mandatory				

REF

Reference Identification (UDC assigned customer account number)

Pos: 050	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Notes:

Required

REF~12~123456789

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification Notes: <i>Utility(UDC) assigned account number for the end customer</i>	M	ID	2/3	Mandatory				
		<table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>12</td><td>Billing Account</td></tr></table>	<u>Code</u>	<u>Name</u>	12	Billing Account				
<u>Code</u>	<u>Name</u>									
12	Billing Account									
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Notes: <i>Account number</i>	C	AN	1/30	Mandatory				

N1	Name (UDC identification)	Pos: 070	Max: 1
		Heading - Optional	
		Loop: N1	Elements: 5

To identify a party by type of organization, name, and code

Syntax:

- R0203 -- At least one of N102 or N103 is required.
P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:
Required
N1~8S~UTILITY COMPANY~1~123456789~~41

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	M	ID	2/3	Mandatory						
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>8S</td><td>Consumer Service Provider (CSP)</td></tr></table> Notes: <i>Utility</i>	<u>Code</u>	<u>Name</u>	8S	Consumer Service Provider (CSP)						
<u>Code</u>	<u>Name</u>											
8S	Consumer Service Provider (CSP)											
N102	93	Name Description: Free-form name	C	AN	1/60	Conditional						
		Notes: <i>Entity name</i>										
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Conditional						
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>1</td><td>D-U-N-S Number, Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4, D-U-N-S Number with Four</td></tr></table> Character Suffix	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four				
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four											
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual	O	ID	2/3	Mandatory						
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr></table>	<u>Code</u>	<u>Name</u>								
<u>Code</u>	<u>Name</u>											

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	41	Submitter				

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N1	Name (ESP identification)	Pos: 070	Max: 1
		Heading - Optional	
		Loop: N1	Elements: 5

To identify a party by type of organization, name, and code

Syntax:

- R0203 -- At least one of N102 or N103 is required.
P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2. N105 and N106 further define the type of entity in N101.

Notes:
Required
N1~SJ~ENERGY SERVICE PROVIDER~1~123456789~~40

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SJ</td><td>Service Provider</td></tr></table> Notes: <i>Energy Service Provider</i>	<u>Code</u>	<u>Name</u>	SJ	Service Provider	M	ID	2/3	Mandatory		
<u>Code</u>	<u>Name</u>											
SJ	Service Provider											
N102	93	Name Description: Free-form name Notes: <i>Entity name</i>	C	AN	1/60	Conditional						
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>1</td><td>D-U-N-S Number, Dun & Bradstreet</td></tr><tr><td>9</td><td>D-U-N-S+4, D-U-N-S Number with Four Character Suffix</td></tr></table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number, Dun & Bradstreet	9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	C	ID	1/2	Conditional
<u>Code</u>	<u>Name</u>											
1	D-U-N-S Number, Dun & Bradstreet											
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix											
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/80	Conditional						
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>40</td><td>Receiver</td></tr></table>	<u>Code</u>	<u>Name</u>	40	Receiver	O	ID	2/3	Mandatory		
<u>Code</u>	<u>Name</u>											
40	Receiver											

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	

ITD	Terms of Sale/Deferred Terms of Sale (Payment due date)	Pos: 130	Max: >1
		Heading - Optional	
		Loop: N/A	Elements: 1

To specify terms of sale

Syntax:

- 1. ITD03 L03040513 -- If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- 2. ITD08 L08040513 -- If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
- 3. ITD09 L091011 -- If ITD09 is present, then at least one of ITD10 or ITD11 is required.

Semantics:

- 1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Comments:

- 1. If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

Notes:
Required
ITD~~~~~20000601

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ITD06	446	Terms Net Due Date	O	DT	8/8	Mandatory
		Description: Date when total invoice amount becomes due expressed in format CCYYMMDD				
		Notes: Payment due date				

DTM	Date/Time Reference (Billing period)	Pos: 140	Max: 10
		Heading - Optional	
		Loop: N/A	Elements: 2

To specify pertinent dates and times

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Required, reflects current billing period only

DTM~186~20000315

DTM~187~20000414

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Mandatory
Description: Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		186		Invoice Period Start		
		187		Invoice Period End		
DTM02	373	Date	C	DT	8/8	Mandatory
Description: Date expressed as CCYYMMDD						

IT1

Baseline Item Data (Metered)

Pos: 010	Max: 1
Detail - Optional	
Loop: IT1	Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
P0607 -- If either IT106 or IT107 are present, then the others are required.
P0809 -- If either IT108 or IT109 are present, then the others are required.
P1011 -- If either IT110 or IT111 are present, then the others are required.
P1213 -- If either IT112 or IT113 are present, then the others are required.
P1415 -- If either IT114 or IT115 are present, then the others are required.
P1617 -- If either IT116 or IT117 are present, then the others are required.
P1819 -- If either IT118 or IT119 are present, then the others are required.
P2021 -- If either IT120 or IT121 are present, then the others are required.
P2223 -- If either IT122 or IT123 are present, then the others are required.
P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~1~~~~SV~EL~C3~METER

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
IT101	350	<p>Assigned Identification</p> <p>Description: Alphanumeric characters assigned for differentiation within a transaction set</p> <p>Notes: <i>Line item counter within IT1 loop</i></p>	O	AN	1/20	Recommended				
IT106	235	<p>Product/Service ID Qualifier</p> <p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <table><tr><th>Code</th><th>Name</th></tr><tr><td>SV</td><td>Service Rendered</td></tr></table>	Code	Name	SV	Service Rendered	C	ID	2/2	Mandatory
Code	Name									
SV	Service Rendered									
IT107	234	<p>Product/Service ID</p> <p>Description: Identifying number for a product or service</p> <p>Notes: <i>Commodity</i></p> <p><i>EL Electric Service</i></p>	C	AN	1/48	Mandatory				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>C3</td><td>Classification</td></tr></table>	<u>Code</u>	<u>Name</u>	C3	Classification				
<u>Code</u>	<u>Name</u>									
C3	Classification									
IT109	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Line item billing levels</i> <i>METER for meter level charges</i>	C	AN	1/48	Mandatory				

TXI

Tax Information (Meter level taxes)

Pos: 040	Max: 10
Detail - Optional	
Loop: IT1	Elements: 6

To specify tax information

Syntax:

- R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
P0405 -- If either TXI04 or TXI05 are present, then the others are required.
C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

- TXI02 is the monetary amount of the tax.
- TXI03 is the tax percent expressed as a decimal.
- TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:

Required if taxes exist and are billed at IT1 levels(Meter)
TXI~ZZ~4.55~~CD~ABC~~A~~~5
TXI~LS~8.10

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
TXI01	963	Tax Type Code Description: Code specifying the type of tax <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CP</td><td>County/Parish Sales Tax</td></tr><tr><td>CS</td><td>City Sales Tax</td></tr><tr><td>LS</td><td>State and Local Sales Tax</td></tr><tr><td>ST</td><td>State Sales Tax</td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CP	County/Parish Sales Tax	CS	City Sales Tax	LS	State and Local Sales Tax	ST	State Sales Tax	ZZ	Mutually Defined	M	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>																	
CP	County/Parish Sales Tax																	
CS	City Sales Tax																	
LS	State and Local Sales Tax																	
ST	State Sales Tax																	
ZZ	Mutually Defined																	
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/18	Mandatory												
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code Notes: Required if TXI01 = ZZ <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CD</td><td>Customer defined</td></tr></table>	<u>Code</u>	<u>Name</u>	CD	Customer defined	C	ID	2/2	Conditional								
<u>Code</u>	<u>Name</u>																	
CD	Customer defined																	
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction Notes: Required if TXI01 = ZZ	C	AN	1/10	Conditional												
TXI07	662	Relationship Code Description: Code indicating the relationship between entities <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>A</td><td>Add</td></tr></table> Notes: The amount in TXI02 is included when summing the invoice total	<u>Code</u>	<u>Name</u>	A	Add	O	ID	1/1	Optional								
<u>Code</u>	<u>Name</u>																	
A	Add																	

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	

MEA	Measurements (Multiplier)	Pos: 059	Max: 40
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
C0504 -- If MEA05 is present, then MEA04 is required
C0604 -- If MEA06 is present, then MEA04 is required
L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for metered account. If no multiplier exists, use value of 1 in MEA03

MEA~~MU~1

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MEA02	738	Measurement Qualifier Description: Code identifying a specific product or process characteristic to which a measurement applies Notes: Required when representing multiplier value	O	ID	1/3	Mandatory
		Code Name MU Multiplier				
MEA03	739	Measurement Value Description: The value of the measurement Notes: If no multiplier exists, use value of 1 in MEA03	C	R	1/20	Mandatory

MEA	Measurements (Reads)	Pos: 059	Max: 40
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
C0504 -- If MEA05 is present, then MEA04 is required
C0604 -- If MEA06 is present, then MEA04 is required
L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for metered account
MEA~AA~~3111~KH~62666~65777

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>														
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies Notes: <i>Required to designate actual or estimated read</i>	O	ID	2/2	Mandatory														
		<table><tr><th><u>Name</u></th><th><u>Code</u></th></tr><tr><td>AA</td><td>Meter reading-beginning actual/ending actual</td></tr><tr><td>EE</td><td>Meter reading-beginning estimated/ending</td></tr><tr><td>estimated</td><td></td></tr><tr><td>AE</td><td>Meter reading-beginning actual/ending estimated</td></tr><tr><td>EA</td><td>Meter reading-beginning estimated/ending</td></tr><tr><td>actual</td><td></td></tr></table>	<u>Name</u>	<u>Code</u>	AA	Meter reading-beginning actual/ending actual	EE	Meter reading-beginning estimated/ending	estimated		AE	Meter reading-beginning actual/ending estimated	EA	Meter reading-beginning estimated/ending	actual					
<u>Name</u>	<u>Code</u>																			
AA	Meter reading-beginning actual/ending actual																			
EE	Meter reading-beginning estimated/ending																			
estimated																				
AE	Meter reading-beginning actual/ending estimated																			
EA	Meter reading-beginning estimated/ending																			
actual																				
MEA03	739	Measurement Value Description: The value of the measurement Notes: <i>Billable consumption with multiplier applied</i>	C	R	1/20	Mandatory														
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory														
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Mandatory														
		<table><tr><th><u>Name</u></th><th><u>Code</u></th></tr></table>	<u>Name</u>	<u>Code</u>																
<u>Name</u>	<u>Code</u>																			

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		KH K3				
		Kilowatt Hour Kilovolt Amperes Reactive Hours (KVARH)				
MEA05	740	Range Minimum Description: The value specifying the minimum of the measurement range Notes: Beginning read	C	R	1/20	Mandatory
MEA06	741	Range Maximum Description: The value specifying the maximum of the measurement range Notes: Ending read	C	R	1/20	Mandatory
MEA07	935	Measurement Significance Code Code NAME 41 Off Peak 42 On Peak 45 Summer On Peak 49 Winter On Peak 57 Summer 58 Winter 66 Shoulder 73 Summer Off Peak 75 Winter Off Peak For time of use (TOU) customers	C	ID	2/2	Conditional

MEA	Measurements (Demand)	Pos: 059	Max: 40
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
C0504 -- If MEA05 is present, then MEA04 is required
C0604 -- If MEA06 is present, then MEA04 is required
L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Conditional. Required for metered accounts where demand is measured

MEA~AA~~125.44~K1~~50~41

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
MEA01	737	Measurement Reference ID Code Description: Code identifying the broad category to which a measurement applies Notes: <i>Required to designate actual or estimated</i>	O	ID	2/2	Mandatory								
		<table><tr><th colspan="2"><u>Code</u></th></tr><tr><th><u>Name</u></th><th></th></tr><tr><td>AN</td><td>Period Actual</td></tr><tr><td>EN</td><td>Period Estimated</td></tr></table>	<u>Code</u>		<u>Name</u>		AN	Period Actual	EN	Period Estimated				
<u>Code</u>														
<u>Name</u>														
AN	Period Actual													
EN	Period Estimated													
MEA03	739	Measurement Value Description: The value of the measurement Notes: <i>Billable demand with multiplier applied</i>	C	R	1/20	Mandatory								
MEA04	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Mandatory								
	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <u>Code</u> <u>Name</u>	M	ID	2/2	Mandatory								

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																				
		K1 Kilowatt Demand																								
MEA06	741	Range Maximum Description: The value specifying the maximum of the measurement range Notes: <i>Required when representing kilowatt demand read without multiplier applied</i>	C	R	1/20	Mandatory																				
MEA07	935	Measurement Significance Code <table><tr><th><u>Code</u></th><th><u>NAME</u></th></tr><tr><td>41</td><td>Off Peak</td></tr><tr><td>42</td><td>On Peak</td></tr><tr><td>45</td><td>Summer On Peak</td></tr><tr><td>49</td><td>Winter On Peak</td></tr><tr><td>57</td><td>Summer</td></tr><tr><td>58</td><td>Winter</td></tr><tr><td>66</td><td>Shoulder</td></tr><tr><td>73</td><td>Summer Off Peak</td></tr><tr><td>75</td><td>Winter Off Peak</td></tr></table> For time of use (TOU) customers	<u>Code</u>	<u>NAME</u>	41	Off Peak	42	On Peak	45	Summer On Peak	49	Winter On Peak	57	Summer	58	Winter	66	Shoulder	73	Summer Off Peak	75	Winter Off Peak	C	ID	2/2	Conditional
<u>Code</u>	<u>NAME</u>																									
41	Off Peak																									
42	On Peak																									
45	Summer On Peak																									
49	Winter On Peak																									
57	Summer																									
58	Winter																									
66	Shoulder																									
73	Summer Off Peak																									
75	Winter Off Peak																									

PID	Product/Item Description (Designate corrected vs. original)	Pos: 060	Max: 1
		Detail - Optional	
		Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

- 1. PID04 C0403 -- If PID04 is present, then PID03 is required
- 2. PID04 R0405 -- At least one of PID04 or PID05 is required.
- 3. PID07 C0703 -- If PID07 is present, then PID03 is required
- 4. PID08 C0804 -- If PID08 is present, then PID04 is required
- 5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		Code Name				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF	Reference Identification (UNI)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:
Required
REF~LU~~ABC123

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
		Description: Code qualifying the Reference Identification								
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>LU</td><td>Location Number</td></tr></table>	<u>Code</u>	<u>Name</u>	LU	Location Number				
<u>Code</u>	<u>Name</u>									
LU	Location Number									
		Notes: Represents Universal Node Identifier UNI								
REF03	352	Description	C	AN	1/80	Mandatory				
		Description: A free-form description to clarify the related data elements and their content								
		Notes: UNI								

REF	Reference Identification (Meter number)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:
Required for metered account
REF~MG~~ABC123

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
		Description: Code qualifying the Reference Identification								
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>MG</td><td>Meter Number</td></tr></table>	<u>Code</u>	<u>Name</u>	MG	Meter Number				
<u>Code</u>	<u>Name</u>									
MG	Meter Number									
		Notes: Required for metered accounts								
REF03	352	Description	C	AN	1/80	Mandatory				
		Description: A free-form description to clarify the related data elements and their content								
		Notes: Meter number or UMI depending on service territory								

REF	Reference Identification (Utility rate)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:
Required
REF~NH~~E36

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
		Description: Code qualifying the Reference Identification								
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>NH</td><td>Rate Card Number</td></tr></table>	<u>Code</u>	<u>Name</u>	NH	Rate Card Number				
<u>Code</u>	<u>Name</u>									
NH	Rate Card Number									
		Notes: Utility rate class								
REF03	352	Description	C	AN	1/80	Mandatory				
		Description: A free-form description to clarify the related data elements and their content								
		Notes: Rate								

REF	Reference Identification (Cycle Number)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional
REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
Description: Code qualifying the Reference Identification										
<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>TZ</td><td>Total Cycle Number</td></tr></table>							<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
Notes: Meter cycle.										
REF03	352	Description	C	AN	1/80	Mandatory				
Description: A free-form description to clarify the related data elements and their content										
Notes: Cycle number when the meter will be read										

DTM	Date/Time Reference (period start/stop dates)	Pos: 150	Max: 10
		Detail - Optional	
		Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as in cancel/rebill and requires sending prior period(s) detail

DTM~150~20000615

DTM~151~20000714

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Mandatory
Description: Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		150		Service Period Start		
		151		Service Period End		
DTM02	373	Date	C	DT	8/8	Mandatory
Description: Date expressed as CCYYMMDD						

SLN

Subline Item Detail

Pos: 200

Max: 1

Detail - Optional

Loop: SLN

Elements: 2

To specify product subline detail item data

Syntax:

- 1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- 2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
- 3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
- 4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- 5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- 6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- 7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- 8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- 9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- 10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- 11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- 12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- 13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

- 1. SLN01 is the identifying number for the subline item.
- 2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

- 1. See the Data Element Dictionary for a complete list of IDs.
- 2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a meter level

SLN~I~~A

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	350	Assigned Identification	M	AN	1/20	Mandatory
Description: Alphanumeric characters assigned for differentiation within a transaction set						
Notes: May be used as a loop counter for line item charges						
SLN03	662	Relationship Code	M	ID	1/1	Mandatory
Description: Code indicating the relationship between entities						
		Code	Name			
		A	Add			

SAC	Service, Promotion, Allowance, or Charge Information (Charge type and amount)	Pos: 230	Max: 25
		Detail - Optional	
		Loop: SLN	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

Syntax:

- 1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
- 2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
- 3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
- 4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
- 5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
- 6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
- 7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
- 8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

Semantics:

- 1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
- 2. SAC05 is the total amount for the service, promotion, allowance, or charge.
- 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
- 4. SAC08 is the allowance or charge rate per unit.
- 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
- 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
- 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
- 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
- 9. SAC16 is used to identify the language being used in SAC15.

Comments:

- 1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
- 2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at a meter level

SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory
		Code Name C Charge				
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>		<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>	<u>Name</u>				
		EU	Electric Utilities				
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code		C	AN	1/10	Mandatory
		Description: Agency maintained code identifying the service, promotion, allowance, or charge					
		Notes: Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15					
		DIS001 Distribution Delivery					
		DSC000 Primary Voltage Discount					
		DSC013 Voltage Credit					
		MSC022 Competitive Transition Charge					
		MSC024 System Benefits					
		ADJ002 Adjustments/Corrections					
		MSC026 Interruptible Penalty Charge					
		SMD016 Meter Read					
		XXXXXX Meter Read Verify Charge					
		XXXXXX Meter Test Charge/Fee					
		XXXXXX Transmission Voltage Credit					
		XXXXXX TOU Remote Metering					
		XXXXXX No Access Charge					
		XXXXXX Capital Credit					
		XXXXXX Meter Ownership Charge					
		XXXXXX Remote Metering					
		XXXXXX City Sales Tax					
		XXXXXX State Sales Tax					
		XXXXXX Meter Services					
		XXXXXX Delivery Service					
		XXXXXX Required Ancillary					
		XXXXXX AISA Charge					
		XXXXXX Fixed Must Run					
		XXXXXX Power Factor					
		XXXXXX Transformer Discount					
		XXXXXX Primary Metering Discount					
		XXXXXX Lifeline Discount					
		XXXXXX Lifeline Variable Discount					
		XXXXXX Senior Lifeline Discount					
		XXXXXX Medical Discount					
		XXXXXX First 200 kW					
		XXXXXX Remaining kW					
		XXXXXX On Peak kW Charge					
		XXXXXX Shoulder kW Charge					
		XXXXXX Off Peak kW Charge					

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		XXXXXX On Peak kWh Charge				
		XXXXXX Shoulder kWh Charge				
		XXXXXX Off Peak kWh Charge				
		XXXXXX Cancelled Bill				
		XXXXXX Miscellaneous Billing Adjustment				
		XXXXXX Direct Access Fee				
		XXXXXX Cancel Direct Access				
		XXXXXX Interval Data Request Charge				
		XXXXXX Refund				
		XXXXXX Charge for Consumption Data				
		XXXXXX Charges for Damaged Equipment				
		XXXXXX Charges for Unauthorized Use of Service				
		XXXXXX After Hour Establishment Fee				
		XXXXXX Service Establishment Fee				
		XXXXXX Cancel Service Establishment Fee				
		XXXXXX Guarantee Home Refund				
		XXXXXX Late Payment Charge				
		XXXXXX Meter Test Charge				
		XXXXXX After Hour Reconnect Fee				
		XXXXXX Reconnect Fee				
		XXXXXX Special Reconnect Fee				
		XXXXXX Temporary Service Charge				
		XXXXXX Residential Rate 70 Refund				
		XXXXXX Charges Transferred				
		XXXXXX Xray				
SAC05	610	Amount	O	N2	1/15	Mandatory
		Description: Monetary amount				
		Notes: Dollar amounts may be positive or negative.				
SAC15	352	Description	C	AN	1/80	Optional
		Description: A free-form description to clarify the related data elements and their content				

N1	Name (Customer)	Pos: 240	Max: 1
		Detail - Optional	
		Loop: N1	Elements: 2

To identify a party by type of organization, name, and code

Syntax:

- 1. N102 R0203 -- At least one of N102 or N103 is required.
- 2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

- 1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2. N105 and N106 further define the type of entity in N101.

Notes:

Required

N1~MQ~JOHN DOE

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
N101	98	Entity Identifier Code	M	ID	2/3	Mandatory						
Description: Code identifying an organizational entity, a physical location, property or an individual												
Notes: <i>Required.</i>												
<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>MQ</td><td>Metering Location</td></tr><tr><td colspan="2">Notes: <i>Customer representing service address</i></td></tr></table>							<u>Code</u>	<u>Name</u>	MQ	Metering Location	Notes: <i>Customer representing service address</i>	
<u>Code</u>	<u>Name</u>											
MQ	Metering Location											
Notes: <i>Customer representing service address</i>												
N102	93	Name	C	AN	1/60	Mandatory						
Description: Free-form name												
Notes: <i>Customer name</i>												

N3	Address Information (Service address)	Pos: 260	Max: 2
		Detail - Optional	
		Loop: N1	Elements: 1

To specify the location of the named party

Notes:

Required

N3~77 SUNSET STRIP

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	AN	1/55	Mandatory
		Description: Address information				
		Notes: Service address				

N4	Geographic Location (Service city/state)	Pos: 270	Max: 1
		Detail - Optional	
		Loop: N1	Elements: 2

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

Notes:
Optional.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name Description: Free-form text for city name Notes: Required if address is within city/town	O	AN	2/30	Conditional
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Notes: Always AZ	O	ID	2/2	Mandatory
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Optional

IT1

Baseline Item Data (Unmetered)

Pos: 010

Max: 1

Detail - Optional

Loop: IT1

Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
P0607 -- If either IT106 or IT107 are present, then the others are required.
P0809 -- If either IT108 or IT109 are present, then the others are required.
P1011 -- If either IT110 or IT111 are present, then the others are required.
P1213 -- If either IT112 or IT113 are present, then the others are required.
P1415 -- If either IT114 or IT115 are present, then the others are required.
P1617 -- If either IT116 or IT117 are present, then the others are required.
P1819 -- If either IT118 or IT119 are present, then the others are required.
P2021 -- If either IT120 or IT121 are present, then the others are required.
P2223 -- If either IT122 or IT123 are present, then the others are required.
P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~2~~~~SV~EL~C3~UNMET

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set Notes: Line item counter within IT1 loop	O	AN	1/20	Recommended
IT106	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) <div><div>Code</div><div>SV</div><div>Name</div><div>Service Rendered</div></div>	C	ID	2/2	Mandatory
IT107	234	Product/Service ID Description: Identifying number for a product or service Notes: Commodity EL Electric Service	C	AN	1/48	Mandatory

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>C3</td><td>Classification</td></tr></table>	<u>Code</u>	<u>Name</u>	C3	Classification				
<u>Code</u>	<u>Name</u>									
C3	Classification									
IT109	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Line item billing levels</i> <i>UNMET for charges at unmetered accounts</i>	C	AN	1/48	Mandatory				

TXI	Tax Information (Billing level taxes)	Pos: 040	Max: 10
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify tax information

Syntax:

- R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
P0405 -- If either TXI04 or TXI05 are present, then the others are required.
C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

- TXI02 is the monetary amount of the tax.
- TXI03 is the tax percent expressed as a decimal.
- TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:

Required if taxes exist and are billed at IT1 levels(Unmetered)

TXI~ZZ~4.55~~CD~ABC~~A~~~5

TXI~LS~8.10

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	Tax Type Code	M	ID	2/2	Mandatory
		Description: Code specifying the type of tax				
		<u>Code</u> <u>Name</u>				
		CP County/Parish Sales Tax				
		CS City Sales Tax				
		LS State and Local Sales Tax				
		ST State Sales Tax				
		ZZ Mutually Defined				
TXI02	782	Monetary Amount	C	R	1/18	Mandatory
Description: Monetary amount						
TXI04	955	Tax Jurisdiction Code Qualifier	C	ID	2/2	Conditional
		Description: Code identifying the source of the data used in tax jurisdiction code				
		Notes: Required if TXI01 = ZZ				
		<u>Code</u> <u>Name</u>				
		CD Customer defined				
TXI05	956	Tax Jurisdiction Code	C	AN	1/10	Conditional
		Description: Code identifying the taxing jurisdiction				
		Notes: Required if TXI01= ZZ				
TXI07	662	Relationship Code	O	ID	1/1	Optional
Description: Code indicating the relationship between entities						

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<div><div><div><u>Code</u></div><div>A</div></div><div><div><u>Name</u></div><div>Add</div></div></div>				
<div>Notes: The amount in TXI02 is included when summing the invoice total</div>						

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MEA	Measurements (Count of unmetered devices)	Pos: 059	Max: 40
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

Syntax:

- R03050608 -- At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- C0504 -- If MEA05 is present, then MEA04 is required
- C0604 -- If MEA06 is present, then MEA04 is required
- L07030506 -- If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- E0803 -- Only one of MEA08 or MEA03 may be present.

Semantics:

- 1. MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments:

- 1. When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

Required for count of umetered devices

MEA~~VOL~I~EA

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA02	738	Measurement Qualifier	O	ID	1/3	Mandatory
		Description: Code identifying a specific product or process characteristic to which a measurement applies				
		VOL Volume				
MEA03	739	Measurement Value	C	R	1/20	Mandatory
		Description: The value of the measurement				
		Notes: Count of unmetered devices				
MEA04	C001	Composite Unit of Measure	C	Comp		Mandatory
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)				
	355	Unit or Basis for Measurement Code	M	ID	2/2	Mandatory
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		EA Each				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	

PID	Product/Item Description (Designate corrected vs. original)	Pos: 060	Max: 1
		Detail - Optional	
		Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

- 1. PID04 C0403 -- If PID04 is present, then PID03 is required
- 2. PID04 R0405 -- At least one of PID04 or PID05 is required.
- 3. PID07 C0703 -- If PID07 is present, then PID03 is required
- 4. PID08 C0804 -- If PID08 is present, then PID04 is required
- 5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		Code Name				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF	Reference Identification (Utility rate)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:
Required
REF~NH~~E36

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
		Description: Code qualifying the Reference Identification								
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>NH</td><td>Rate Card Number</td></tr></table>	<u>Code</u>	<u>Name</u>	NH	Rate Card Number				
<u>Code</u>	<u>Name</u>									
NH	Rate Card Number									
		Notes: Utility rate class								
REF03	352	Description	C	AN	1/80	Mandatory				
		Description: A free-form description to clarify the related data elements and their content								
		Notes: Rate								

REF	Reference Identification (Cycle Number)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional
REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
Description: Code qualifying the Reference Identification										
<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>TZ</td><td>Total Cycle Number</td></tr></table>							<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
Notes: Meter cycle.										
REF03	352	Description	C	AN	1/80	Mandatory				
Description: A free-form description to clarify the related data elements and their content										
Notes: Cycle number when the meter will be read										

DTM	Date/Time Reference (period start/stop dates)	Pos: 150	Max: 10
		Detail - Optional	
		Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as cancel/rebill and requires sending prior period(s) detail

DTM~150~20000615

DTM~151~20000714

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Mandatory
Description: Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		150		Service Period Start		
		151		Service Period End		
DTM02	373	Date	C	DT	8/8	Mandatory
Description: Date expressed as CCYYMMDD						

SLN	Subline Item Detail	Pos: 200	Max: 1
		Detail - Optional	
		Loop: SLN	Elements: 2

To specify product subline detail item data

Syntax:

- 1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- 2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
- 3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
- 4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- 5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- 6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- 7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- 8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- 9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- 10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- 11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- 12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- 13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

- 1. SLN01 is the identifying number for the subline item.
- 2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

- 1. See the Data Element Dictionary for a complete list of IDs.
- 2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a detailed level

SLN~I~~A

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	350	Assigned Identification	M	AN	1/20	Mandatory
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
		Notes: May be used as a loop counter for line item charges				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
SLN03	662	Relationship Code	M	ID	1/1	Mandatory	
Description: Code indicating the relationship between entities							
		<u>Code</u>	<u>Name</u>				
		A	Add				

SAC

Service, Promotion, Allowance, or Charge Information (Charge type and amount)

Pos: 230Max: 25
Detail - Optional
Loop: SLNElements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax:
- 1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
 - 2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
 - 3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
 - 4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
 - 5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
 - 6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
 - 8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

- Semantics:
- 1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2. SAC05 is the total amount for the service, promotion, allowance, or charge.
 - 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 4. SAC08 is the allowance or charge rate per unit.
 - 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 9. SAC16 is used to identify the language being used in SAC15.

- Comments:
- 1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at a detailed level

SAC~C~~EU~DIS001~1250~~~~~DISTRIBUTION DELIVERY

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Mandatory
Description: Code which indicates an allowance or charge for the service						

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
		specified					
		<u>Code</u> C					<u>Name</u> Charge
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory	
		<u>Code</u> EU					<u>Name</u> Electric Utilities
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge Notes: <i>Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15</i> <i>DIS001 Distribution delivery</i> <i>ADJ002 Adjustments/corrections</i> <i>XXXXXX Flat Rate Charge Based on Service</i> <i>FFR001 Non Metered Service</i> <i>XXXXXX City Sales Tax</i> <i>XXXXXX State Sales Tax</i> <i>XXXXXX Delivery Service</i> <i>XXXXXX Required Ancillary</i> <i>XXXXXX AISA Charge</i> <i>XXXXXX Fixed Must Run</i> <i>BAS001 Basic Service Charge</i> <i>XXXXXX Cancelled Bill</i> <i>XXXXXX Miscellaneous Billing Adjustment</i> <i>XXXXXX Contract Adjustment</i> <i>XXXXXX Direct Access Fee</i> <i>XXXXXX Cancel Direct Access</i> <i>XXXXXX Refund</i> <i>XXXXXX Charge for Consumption Data</i> <i>XXXXXX Charges for Damaged Equipment</i> <i>XXXXXX Service Establishment Fee</i> <i>XXXXXX Cancel Service Establishment Fee</i> <i>XXXXXX Late Payment Charge</i> <i>XXXXXX Charges Transferred</i> <i>XXXXXX Xray</i>	C	AN	1/10	Mandatory	
SAC05	610	Amount Description: Monetary amount Notes: <i>Dollar amounts may be positive or negative.</i>	O	N2	1/15	Mandatory	
SAC15	352	Description	C	AN	1/80	Optional	

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: A free-form description to clarify the related data elements and their content						

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N1	Name (Customer)	Pos: 240	Max: 1
		Detail - Optional	
		Loop: N1	Elements: 2

To identify a party by type of organization, name, and code

Syntax:

- 1. N102 R0203 -- At least one of N102 or N103 is required.
- 2. N103 P0304 -- If either N103 or N104 are present, then the others are required.

Comments:

- 1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2. N105 and N106 further define the type of entity in N101.

Notes:
Required
N1~MQ~JOHN DOE

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Mandatory
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		Notes: Required.				
		Code Name				
		MQ Metering Location				
		Notes: Customer representing service address				
N102	93	Name	C	AN	1/60	Mandatory
		Description: Free-form name				
		Notes: Customer name				

N3	Address Information (Service address)	Pos: 260	Max: 2
		Detail - Optional	
		Loop: N1	Elements: 1

To specify the location of the named party

Notes:

Required

N3~77 SUNSET STRIP

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	Address Information	M	AN	1/55	Mandatory
		Description: Address information				
		Notes: Service address				

N4	Geographic Location (Service city/state)	Pos: 270	Max: 1
		Detail - Optional	
		Loop: N1	Elements: 2

To specify the geographic place of the named party

Syntax:

C0605 -- If N406 is present, then N405 is required

Comments:

- 1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
- 2. N402 is required only if city name (N401) is in the U.S. or Canada.

Notes:
Optional.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	City Name Description: Free-form text for city name Notes: Required if address is within city/town	O	AN	2/30	Conditional
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency Notes: Always AZ	O	ID	2/2	Mandatory

IT1	Baseline Item Data (Account)	Pos: 010	Max: 1
		Detail - Optional	
		Loop: IT1	Elements: 5

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
P0607 -- If either IT106 or IT107 are present, then the others are required.
P0809 -- If either IT108 or IT109 are present, then the others are required.
P1011 -- If either IT110 or IT111 are present, then the others are required.
P1213 -- If either IT112 or IT113 are present, then the others are required.
P1415 -- If either IT114 or IT115 are present, then the others are required.
P1617 -- If either IT116 or IT117 are present, then the others are required.
P1819 -- If either IT118 or IT119 are present, then the others are required.
P2021 -- If either IT120 or IT121 are present, then the others are required.
P2223 -- If either IT122 or IT123 are present, then the others are required.
P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
2. IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required

IT1~2~~~~~SV~EL~C3~ACCOUNT

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage				
IT101	350	<p>Assigned Identification</p> <p>Description: Alphanumeric characters assigned for differentiation within a transaction set</p> <p>Notes: <i>Line item counter within IT1 loop</i></p>	O	AN	1/20	Recommended				
IT106	235	<p>Product/Service ID Qualifier</p> <p>Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)</p> <table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>SV</td><td>Service Rendered</td></tr></table>	<u>Code</u>	<u>Name</u>	SV	Service Rendered	C	ID	2/2	Mandatory
<u>Code</u>	<u>Name</u>									
SV	Service Rendered									
IT107	234	<p>Product/Service ID</p> <p>Description: Identifying number for a product or service</p> <p>Notes: <i>Commodity</i></p> <p><i>EL Electric Service</i></p>	C	AN	1/48	Mandatory				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT108	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Mandatory
		<div><div><u>Code</u> C3</div><div><u>Name</u> Classification</div></div>				
IT109	234	Product/Service ID Description: Identifying number for a product or service Notes: <i>Line item billing levels</i> <i>ACCOUNT for account level charges</i>	C	AN	1/48	Mandatory

TXI	Tax Information (Billing level taxes)	Pos: 040	Max: 10
		Detail - Optional	
		Loop: IT1	Elements: 6

To specify tax information

Syntax:

- R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
P0405 -- If either TXI04 or TXI05 are present, then the others are required.
C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

- TXI02 is the monetary amount of the tax.
- TXI03 is the tax percent expressed as a decimal.
- TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Notes:

Required if taxes exist and are billed at IT1 levels(Account)

TXI~ZZ~4.55~~CD~ABC~~A~~~5

TXI~LS~8.10

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TXI01	963	Tax Type Code	M	ID	2/2	Mandatory
		Description: Code specifying the type of tax				
		<u>Code</u> <u>Name</u>				
		CP County/Parish Sales Tax				
		CS City Sales Tax				
		LS State and Local Sales Tax				
		ST State Sales Tax				
		ZZ Mutually Defined				
TXI02	782	Monetary Amount	C	R	1/18	Mandatory
Description: Monetary amount						
TXI04	955	Tax Jurisdiction Code Qualifier	C	ID	2/2	Conditional
		Description: Code identifying the source of the data used in tax jurisdiction code				
		Notes: Required if TXI01 = ZZ				
		<u>Code</u> <u>Name</u>				
		CD Customer defined				
TXI05	956	Tax Jurisdiction Code	C	AN	1/10	Conditional
		Description: Code identifying the taxing jurisdiction				
		Notes: Required if TXI01 = ZZ				
TXI07	662	Relationship Code	O	ID	1/1	Optional
Description: Code indicating the relationship between entities						

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<div><div><div><u>Code</u></div><div>A</div></div><div><div><u>Name</u></div><div>Add</div></div></div>				
<div>Notes: The amount in TXI02 is included when summing the invoice total</div>						

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PID	Product/Item Description (Designate corrected vs. original)	Pos: 060	Max: 1
		Detail - Optional	
		Loop: PID	Elements: 2

To describe a product or process in coded or free-form format

Syntax:

- 1. PID04 C0403 -- If PID04 is present, then PID03 is required
- 2. PID04 R0405 -- At least one of PID04 or PID05 is required.
- 3. PID07 C0703 -- If PID07 is present, then PID03 is required
- 4. PID08 C0804 -- If PID08 is present, then PID04 is required
- 5. PID09 C0905 -- If PID09 is present, then PID05 is required

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

Comments:

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

Notes:

Conditional. Required for cancel/rebill to differentiate between corrected and original details.

PID~F~~~~CORRECTED

PID~F~~~~ORIGINAL

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PID01	349	Item Description Type	M	ID	1/1	Mandatory
		Code Name				
		F Free-form				
PID05	352	Description	C	AN	1/80	Mandatory

REF	Reference Identification (Days in period)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:
R0203 -- At least one of REF02 or REF03 is required.

Semantics:
1. REF04 contains data relating to the value cited in REF02.

Notes:
Required

REF~ZZ~~31

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification	M	ID	2/3	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>ZZ</td><td>Mutually Defined</td></tr></table>	<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>									
ZZ	Mutually Defined									
		Notes: <i>Number of days in the usage period</i>								
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Mandatory				
		Notes: Number of days in period								

REF	Reference Identification (Cycle Number)	Pos: 120	Max: >1
		Detail - Optional	
		Loop: IT1	Elements: 3

To specify identifying information

Syntax:

R0203 -- At least one of REF02 or REF03 is required.

Semantics:

- 1. REF04 contains data relating to the value cited in REF02.

Notes:

Optional
REF~TZ~~15

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
REF01	128	Reference Identification Qualifier	M	ID	2/3	Mandatory				
Description: Code qualifying the Reference Identification										
<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>TZ</td><td>Total Cycle Number</td></tr></table>							<u>Code</u>	<u>Name</u>	TZ	Total Cycle Number
<u>Code</u>	<u>Name</u>									
TZ	Total Cycle Number									
Notes: Meter cycle.										
REF03	352	Description	C	AN	1/80	Mandatory				
Description: A free-form description to clarify the related data elements and their content										
Notes: Cycle number when the meter will be read										

DTM	Date/Time Reference (period start/stop dates)	Pos: 150	Max: 10
		Detail - Optional	
		Loop: IT1	Elements: 2

To specify pertinent dates and times

Syntax:

- R020305 -- At least one of DTM02, DTM03 or DTM05 is required.
- C0403 -- If DTM04 is present, then DTM03 is required
- P0506 -- If either DTM05 or DTM06 are present, then the others are required.

Notes:

Conditional. Used when period is different than the header, such as cancel/rebill

Generally, the DTMs are paired but it is acceptable to use one to represent the period.

DTM~150~20000615

DTM~151~20000714

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier	M	ID	3/3	Mandatory
Description: Code specifying type of date or time, or both date and time						
		<u>Code</u>		<u>Name</u>		
		150		Service Period Start		
		151		Service Period End		
DTM02	373	Date	C	DT	8/8	Mandatory
Description: Date expressed as CCYYMMDD						

SLN	Subline Item Detail	Pos: 200	Max: 1
		Detail - Optional	
		Loop: SLN	Elements: 2

To specify product subline detail item data

Syntax:

- 1. SLN04 P0405 -- If either SLN04 or SLN05 are present, then the others are required.
- 2. SLN07 C0706 -- If SLN07 is present, then SLN06 is required
- 3. SLN08 C0806 -- If SLN08 is present, then SLN06 is required
- 4. SLN09 P0910 -- If either SLN09 or SLN10 are present, then the others are required.
- 5. SLN11 P1112 -- If either SLN11 or SLN12 are present, then the others are required.
- 6. SLN13 P1314 -- If either SLN13 or SLN14 are present, then the others are required.
- 7. SLN15 P1516 -- If either SLN15 or SLN16 are present, then the others are required.
- 8. SLN17 P1718 -- If either SLN17 or SLN18 are present, then the others are required.
- 9. SLN19 P1920 -- If either SLN19 or SLN20 are present, then the others are required.
- 10. SLN21 P2122 -- If either SLN21 or SLN22 are present, then the others are required.
- 11. SLN23 P2324 -- If either SLN23 or SLN24 are present, then the others are required.
- 12. SLN25 P2526 -- If either SLN25 or SLN26 are present, then the others are required.
- 13. SLN27 P2728 -- If either SLN27 or SLN28 are present, then the others are required.

Semantics:

- 1. SLN01 is the identifying number for the subline item.
- 2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

- 1. See the Data Element Dictionary for a complete list of IDs.
- 2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
- 3. SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

Required if there are charges at a detailed level

SLN~I~~A

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SLN01	350	Assigned Identification	M	AN	1/20	Mandatory
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
		Notes: May be used as a loop counter for line item charges				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
SLN03	662	Relationship Code	M	ID	1/1	Mandatory	
Description: Code indicating the relationship between entities							
		<u>Code</u>	<u>Name</u>				
		A	Add				

SAC	Service, Promotion, Allowance, or Charge Information (Account level charges)	Pos: 230	Max: 1
		Detail - Optional	
		Loop: SAC	Elements: 5

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

- Syntax:
- 1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
 - 2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
 - 3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.
 - 4. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.
 - 5. SAC11 C1110 -- If SAC11 is present, then SAC10 is required
 - 6. SAC13 L130204 -- If SAC13 is present, then at least one of SAC02 or SAC04 is required.
 - 7. SAC14 C1413 -- If SAC14 is present, then SAC13 is required
 - 8. SAC16 C1615 -- If SAC16 is present, then SAC15 is required

- Semantics:
- 1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
 - 2. SAC05 is the total amount for the service, promotion, allowance, or charge.
 - 3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
 - 4. SAC08 is the allowance or charge rate per unit.
 - 5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
 - 6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
 - 7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
 - 8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
 - 9. SAC16 is used to identify the language being used in SAC15.

- Comments:
- 1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
 - 2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes:

Required if there are charges at account level

SAC~C~~EU~BAS001~1250~~~~~BASIC SVC CHG

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ESP_Consolidated_810_draft8.rtf	63					For internal use only

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
SAC01	248	Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified	M	ID	1/1	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>C</td><td>Charge</td></tr></table>	<u>Code</u>	<u>Name</u>	C	Charge				
<u>Code</u>	<u>Name</u>									
C	Charge									
SAC03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Mandatory				
		<table><tr><td><u>Code</u></td><td><u>Name</u></td></tr><tr><td>EU</td><td>Electric Utilities</td></tr></table>	<u>Code</u>	<u>Name</u>	EU	Electric Utilities				
<u>Code</u>	<u>Name</u>									
EU	Electric Utilities									
SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Description: Agency maintained code identifying the service, promotion, allowance, or charge Notes: Required. Valid codes from UIG billing codes for SAC04 are below. Additional description is placed in SAC15 BAS001 Basic Service Charge DSC009 Energy Support Program Discount HOC001 Service Establishment Charge RCS001 Reconnect Charge VCR001 Charitable Contribution ODL002 Security Lighting Charge ADJ006 Franchise Fees MSC001 Miscellaneous Charges XXXXXX Security Lighting Credit XXXXXX Meter Tampering Charge/Fee XXXXXX Meter Test Charge/Fee XXXXXX Capital Credit MSC026 Interruptible Penalty XXXXXX Meter Read Verify Charge XXXXXX RUCO Regulatory Assessment XXXXXX No Access Charge XXXXXX Meter Ownership Charge SMD016 Meter Read Charge MSC024 Systems Benefits Charge DIS001 Distribution Deliver Charge XXXXXX ACC Regulatory Assessment XXXXXX Totalizing Charge CRE001 Miscellaneous Credit FFR001 Non Metered Service XXXXXX Xray	C	AN	1/10	Mandatory				
SAC05	610	Amount Description: Monetary amount	O	N2	1/15	Mandatory				

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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
Notes: <i>Dollar amounts may be positive or negative.</i>							
SAC15	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Optional	

TDS

Total Monetary Value Summary

Pos: 010

Summary - Mandatory

Loop: N/A

Max: 1

Elements: 1

To specify the total invoice discounts and amounts

Semantics:

- 1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
- 2. TDS02 indicates the amount upon which the terms discount amount is calculated.
- 3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
- 4. TDS04 indicates the total amount of terms discount.

Comments:

- 1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Notes:

Required

TDS~53275

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TDS01	610	Amount	M	N2	1/15	Mandatory
		Description: Monetary amount				
		Notes: Total dollar amount of non-billing party's invoice				

CTT

Transaction Totals

Pos: 070	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

To transmit a hash total for a specific element in the transaction set

Syntax:

- 1. CTT03 P0304 -- If either CTT03 or CTT04 are present, then the others are required.
- 2. CTT05 P0506 -- If either CTT05 or CTT06 are present, then the others are required.

Comments:

- 1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Notes:

Recommended

CTT~3

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	Number of Line Items	M	N0	1/6	Mandatory
		Description: Total number of line items in the transaction set				
		Notes: Number of IT1 segments in detail section				

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SE	Transaction Set Trailer	Pos: 080	Max: 1
		Summary - Mandatory	
		Loop: N/A	Elements: 2

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Comments:

- 1. SE is the last segment of each transaction set.

Notes:
Required
SE~27~00052

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Mandatory
SE02	329	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Mandatory